

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/020048

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K39/385 A61K39/095 A61K39/40 A61K47/48 C07H1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K C07H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>BHATTACHARJEE A K ET AL: "STRUCTURAL DETERMINATION OF THE POLY SACCHARIDE ANTIGENS OF NEISSERIA-MENINGITIDIS SEROGROUP Y SEROGROUP W-135 AND SEROGROUP BO"</p> <p>CANADIAN JOURNAL OF BIOCHEMISTRY, vol. 54, no. 1, January 1976 (1976-01), pages 1-8, XP009040472</p> <p>ISSN: 0008-4018</p> <p>cited in the application abstract</p> <p>page 2, left-hand column, paragraph 2</p> <p>page 2, right-hand column, paragraph 4</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">-/--</p>	24-26



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

* & * document member of the same patent family

Date of the actual completion of the international search

25 November 2004

Date of mailing of the international search report

09/12/2004

Name and mailing address of the ISA

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PCT/US2004/020048

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JONES CHRISTOPHER ET AL: "Use and validation of NMR assays for the identity and O-acetyl content of capsular polysaccharides from Neisseria meningitidis used in vaccine manufacture." JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol. 30, no. 4, 7 November 2002 (2002-11-07), pages 1233-1247, XP002307110 ISSN: 0731-7085 abstract; figure 3 page 1237, paragraph 3.2 page 1242, paragraph 3.6 - page 1243, paragraph 3.7	24
X	WO 00/10599 A (NORTH AMERICAN VACCINE INC) 2 March 2000 (2000-03-02) claims 1-58; figure 1	1-28
Y	HRONOWSKI L ET AL: "E-75: Structure activity studies on Neisseria meningitidis group C polysaccharide-protein conjugate vaccines: The effect of O-acetylation on the nature of the antibody response" ABSTRACTS OF THE GENERAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, vol. 93, no. 0, 1993, page 155, XP009040462 & 93RD GENERAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY; ATLANTA, GEORGIA, USA; MAY 16-20, 1993 ISSN: 1060-2011 abstract	1-28
Y	WO 94/05325 A (NORTH AMERICAN VACCINE INC) 17 March 1994 (1994-03-17) claims 1-26	1-28
P,X	FARLEY E K ET AL: "G-1647: Preclinical studies on the development of an optimal meningococcal CYW conjugate vaccine." ABSTRACTS OF THE INTERSCIENCE CONFERENCE ON ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, vol. 43, 2003, page 293, XP001203789 & 43RD ANNUAL INTERSCIENCE CONFERENCE ON ANTIMICROBIAL AGENTS AND CHEMOTHERAPY; CHICAGO, IL, USA; SEPTEMBER 14-17, 2003 abstract	1-28

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	<p>FARLEY E K ET AL: "G-1558: Effect of O-acetylation of Neisseria meningitidis serogroup Y capsular polysaccharide on development of functional antibodies." ABSTRACTS OF THE INTERSCIENCE CONFERENCE ON ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, vol. 43, 2003, page 292, XP001183793 & 43RD ANNUAL INTERSCIENCE CONFERENCE ON ANTIMICROBIAL AGENTS AND CHEMOTHERAPY; CHICAGO, IL, USA; SEPTEMBER 14-17, 2003 abstract</p> <p>-----</p>	1-28

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Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 23
because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 23 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/020048

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0010599	A	02-03-2000	AU 771330 B2	18-03-2004
			AU 5780099 A	14-03-2000
			CA 2340692 A1	02-03-2000
			CN 1323221 T	21-11-2001
			CZ 20010622 A3	16-01-2002
			EP 1109576 A2	27-06-2001
			HU 0103100 A2	28-11-2001
			JP 2004505885 T	26-02-2004
			NO 20010805 A	03-04-2001
			NZ 509986 A	31-10-2003
			PL 346645 A1	25-02-2002
			WO 0010599 A2	02-03-2000
			US 2004213804 A1	28-10-2004
WO 9405325	A	17-03-1994	US 5425946 A	20-06-1995
			AT 212233 T	15-02-2002
			AU 4841693 A	29-03-1994
			CA 2142981 A1	17-03-1994
			DE 69331495 D1	14-03-2002
			DE 69331495 T2	31-10-2002
			DK 658118 T3	06-05-2002
			EP 0658118 A1	21-06-1995
			ES 2171418 T3	16-09-2002
			JP 8500607 T	23-01-1996
			NO 950739 A	26-04-1995
			PL 307745 A1	12-06-1995
			PT 658118 T	31-05-2002
			WO 9405325 A1	17-03-1994